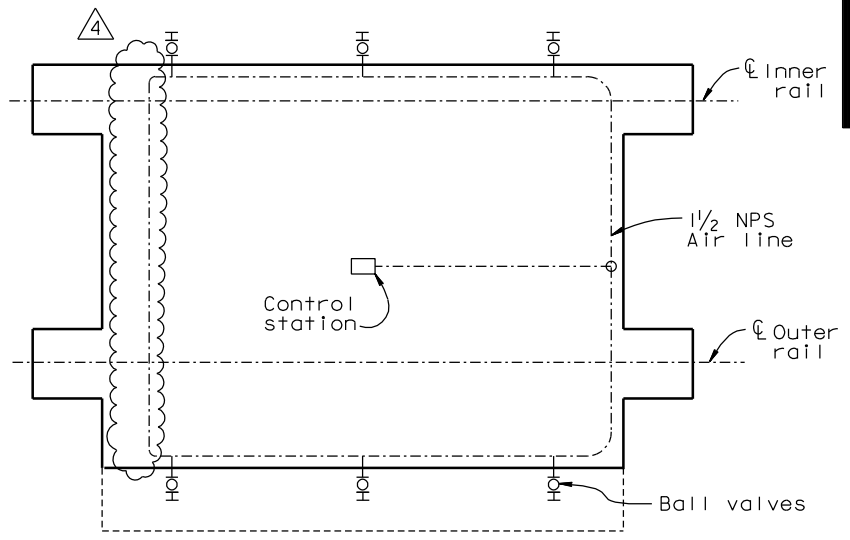




DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	1161R4	1204

REGISTERED ENGINEER - MECHANICAL
12-6-04
PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.
T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111
Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

PROFESSIONAL ENGINEER
Roupen Donikian
No. C 56519
Exp. 06/30/09
CIVIL
STATE OF CALIFORNIA

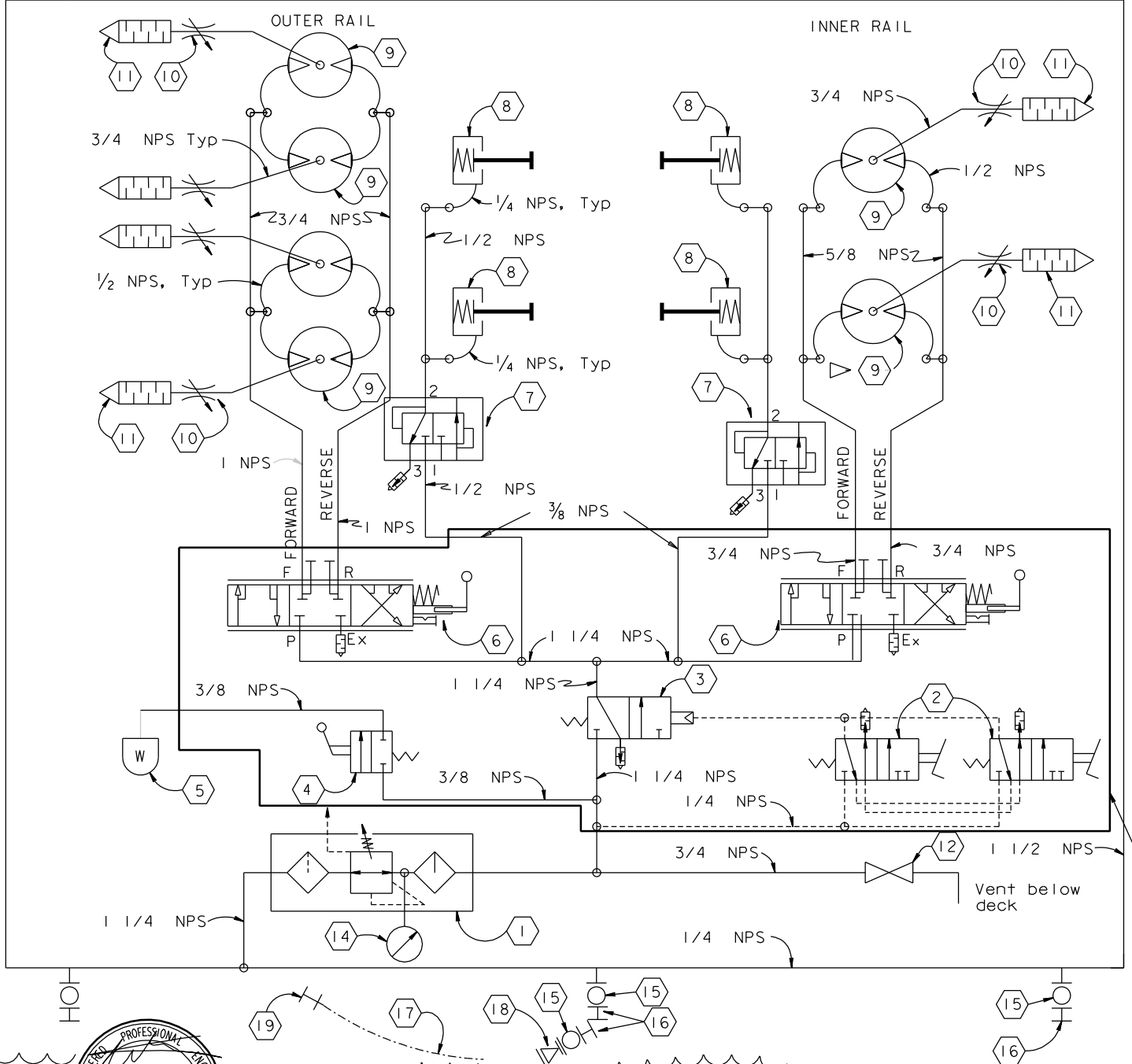


PNEUMATIC LAYOUT PLAN

NTS All Items Contained within Boundary Line are Located in the Control Panel

Part	Description	Size	Quantity per Traveler
1	Lubricator, Filter, Pressure Regulator		1
2	Pedal operated Pilot Valve - To control Valve 3	1/4"	2
3	Main System control valve - Poppet Valve	1 1/4"	1
4	Whistle valve	3/8"	1
5	Whistle	-	1
6	Full Flow throttle Valve for Trolley motors	1 1/4"	2
7	Quick Dump Valve for Brakes	1/2"	2
8	Ingersoll Rand Parking Brake	-	4
9	Ingersoll Rand Motorized Trolley	-	6
10	Exhaust Choke Valve for speed control	3/4"	6
11	Silencer	-	6
12	Blow Down Valve	3/4"	1
13	Not Used		
14	Gage		1
15	Ball Valve	1 1/2"	10
16	Coupling	1 1/2"	7
17	Flexible Supply Hose - 8000 long	2"	4
18	Reducer - 2" to 1 1/2"		4
19	Boss B27 Wing Nut & GB26 Stem & Hose Clamp	2"	4

- NOTES:
1. All double check valves shall be installed horizontally.
 2. All vents without silencers shall have a minimum of 300 mm of pipe and terminate with a screened downturned elbow.
 3. Flexible hose not to exceed 750 mm in length may be used for final connections to equipment.



PNEUMATIC SCHEMATIC

NTS

All items contained within boundary line are located in the control panel

4. All pipe sizes are typical for similar locations.
5. On board rigid pipe to be SCHED 40.
6. Provide support to 1 1/2" pipe within 150 mm of each flexible hose connection and at 1800 intervals maximum.
7. Provide downturned elbow and reducer as required at each equipment connection.
8. Provide sufficient flexible connection hose to accomodate traveler movement (8000 mm length).
9. Mount throttle and whistle valves so as to be accessible by hand.
10. Mount pedal operated pilot valves (item 2) Dead Man Switch so as to be operated by foot. One for operator facing east, one for operator facing west.
11. Provide weather cover for all controls.
12. Pneumatic schematics illustrate the principles of the pneumatic systems. System manufacturer is to: review pneumatic schematics; carry out detailed design of the system; make any detailed modifications necessary to ensure the proper operation of the systems.

13. Fabricator to design & supply a console for the control station using steel angle frame & plywood enclosure.
14. Traveler maximum operating speed 6.1 m/min (20 fpm) fully loaded going upgrade.
15. Anticipated air consumption at full speed is 25 scfm per trolley.
16. For valve item 6, use same valve type as will be used for the main trolley throttles on the SAS and E2/E3 travelers.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)
E2/E3 BIKEPATH TRAVELER AIR SYSTEM

BRIDGE NO.
34-0006L/R
KILOMETER POST
13.2/13.9

REVISION DATES (PRELIMINARY STAGE ONLY)
01/01/02 07/01/02 12/19/02
SHEET 744R4 OF

FOR REVISION 3 & 4 ONLY
REVISION 2 SUPERSEDES REVISION 1
CONTRACT CHANGE ORDER NO. _____
SHEET ____ OF ____

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
4	01/11/12	MISCELLANEOUS TRAVELER MODIFICATIONS	RH	AS	183SI
3	07/30/10	TRAVELER MODIFICATIONS	RH	RS	24SI
2	08/21/09	TRAVELER MODIFICATIONS	TH	AS	24SI
1	07/20/07	RAIL CHANGE & MISCELLANEOUS DETAILS	RD	NV	24

DESIGN BY J. Otter CHECKED R. Donikian
DETAILS BY J. Otter CHECKED R. Donikian
QUANTITIES BY J. Otter CHECKED M. Roberts

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

CU 04
EA 0120F1

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS
FOR REDUCED PLANS

FILE => L:\BB\04-012001\SAS\Contract Plans and CCO\CCO\CCO#183SI\2-Update 01-11-12\GDN\aktrv142.dgn